

1 CGGAGGCAGGGAGTGAGGAGCGAGCGGAGTCGCGTGCGCCGCGCGAGCTCCGGGTCGCC 60  
 61 CCAGCCCCAGCCGGGGGCTGTGGCGGGGAGGAGCTGTGCGTCCGCGACCCGTCGGGAT 120  
 121 CGCAGCTGTCTCGGCCGAGTGACAGGGCCGAGTCTGCGCGACTACCCACGCGTGACAGGT 180  
 181 CCCTGAATGAGAAGGAGCTGACAGCAGCTGAATTCCATCTTCTCTGTGTGCTGGGGAGCA 240  
 241 GGGCTACACGGCCAGGTGGCATCAATGCCGAAGAACAGCAAAGTGACCCAGCGTGAGCA 300  
 1 M P K N S K V T Q R E H 12  
 301 CAGCACTGAGCATGTCACTGAGTCCGTGGCCGACCTGCTGGCCCTCGAGGAGCCTGTGGA 360  
 13 S S E H V T E S V A D L L A L E E P V D 32  
 361 CTATAAGCAGAGTGTACTGAATGTGGCTGGTGAGGCAGGCGGCAAGCAGAAGGCGGTGGA 420  
 33 Y K Q S V L N V A G E A G G K Q K A V E 52  
 421 GGAGGAGCTGGATGCAGAGGACCGGCCGCCCTGGAACAGTAAGCTGCAGTACATCCTGGC 480  
 53 E E L D A E D R P A W N S K L Q Y I L A 72  
 481 CCAGATTGGCTTCTCTGTGGGCCTCGGCAACATCTGGAGGTTCCCTACCTGTGCCAGAA 540  
 73 Q I G F S V G L G N I W R F P Y L C Q K 92  
 541 AAATGGAGGAGGTGCTTACCTGGTGCCCTACCTGGTGCTGCTGATCATCATCGGGATCCC 600  
 93 N G G G A Y L V P Y L V L L I I I G I P 112  
 601 CCTCTTCTTCCTGGAGCTGGCTGTGGGTGAGGATCCGCCGCGGAAGCATCGGTGTGTG 660  
 113 L F F L E L A V G Q R I R R G S I G V W 132  
 661 GCACTATATATGTCCCGCCTGGGGGGGATCGGCTTCTCCAGCTGCATAGTCTGTCTCTT 720  
 133 H Y I C P R L G G I G F S S C I V C L F 152

FIG. 1A

721 TGTGGGGCTGTATTATAATGTGATCATCGGGTGGAGCATCTTCTATTTCTTCAAGTCCTT 780  
 153 V G L Y Y N V I I G W S I F Y F F K S F 172  
 781 CCAGTACCCGCTGCCCTGGAGTGAATGCTCTGTCGTCAGGAATGGGAGCGTCGAGTGGT 840  
 173 Q Y P L P W S E C P V V R N G S V A V V 192  
 841 GGAGGCAGAGTGTGAAAAGAGCTCAGCCACTACCTACTTCTGGTACCGAGAGGCTTTGGA 900  
 193 E A E C E K S S A T T Y F W Y R E A L D 212  
 901 CATCTCTGACTCCATCTCGGAGAGTGGGGGCTCAACTGGAAGATGACCCGTGTCCTCCT 960  
 213 I S D S I S E S G G L N W K M T L C L L 232  
 961 CGTGGTCTGGAGCATCGGGGGGATGGCTGTGCGTAAGGCATCCAGTCTCGGGGAAGGT 1020  
 233 V V W S I G G M A V G K G I Q S S G K V 252  
 1021 GATGTATTTTCAGCTCCCTCTTCCCTACGTGGTGTCTGGCTGCTTCTGGTCCGGGGGTT 1080  
 253 M Y F S S L F P Y V V L A C F L V R G L 272  
 1081 GTTGTGTGCGAGGGGCGAGTTGATGGCATCCTACACATGTTCACTCCCAAGCTGGTCAAGAT 1140  
 273 L L R G A V D G I L H M F T P K L V K M 292  
 1141 GCTGGACCCCCAGGTGTGGCGGGAGGTAGCTACCCAGGTCTTCTTTGGCTTGGGTCTGGG 1200  
 293 L D P Q V W R E V A T Q V F F G L G L G 312  
 1201 CTTTGGTGGTGTCATTGTCTTCTCCAGTTACAATAAGCAGGACAACAACCTGCCACTTCGA 1260  
 313 F G G V I V F S S Y N K Q D N N C H F D 332  
 1261 TGGCGCCCTGGTGTCTTCATCAACTTCTTCAGTCAAGTGTGGCCACCCCTGCGTGGTGT 1320  
 333 G A L V S F I N F F T S V L A T L V V F 352  
 1321 TGTGTGTTTGGGCTTCAAGGCCAACATCATGAATGAGAAGTGTGTGGTCGAGAATGCTGA 1380  
 353 V V L G F K A N I M N E K C V V E N A E 372

FIG. 1B

1381 GAAAATCCTAGGGTACCTTAAACACCAACGTCCTGAGCCGGGACCTCATCCACCCACGT 1440  
 373 K I L G Y L N T N V L S R D L I P P H V 392

1441 CAACTTCTCCACCTGACCACAAAGGACTACATGGAGATGGACAATGTCATCATGACCGT 1500  
 393 N F S H L T T K D Y M E M D N V I M T V 412

1501 GAAGGAGGACCACTTCTCAGCCCTGGGCCCTTGACCCCTGCCTTCTGGAGGACGAGCTGGA 1560  
 413 K E D Q F S A L G L D P C L L E D E L D 432

1561 CAAGTCCGTGCAGGGCACAGGCCTGGCCTTCATCGCCTTCACTGAGGCCATGACGCACCT 1620  
 433 K S V Q G T G L A F I A F T E A M T H F 452

1621 CCCACCTCCCCGTTCTGGTCCGTGATGTTCTTCTTGATGCTTATCAACCTGGGCCTGGG 1680  
 453 P T S P F W S V M F F L M L I N L G L G 472

1681 CAGCATGATCGGGACCATGGCAGGCATCACCAGCCCATCATCGACACCTCCAAGGTGCC 1740  
 473 S M I G T M A G I T T P I I D T S K V P 492

1741 CAAGGAGATGTTACAGTGGGCTGCTGTGCTTTTACATTCCCTCGTGGGACTGTGTGTTCTG 1800  
 493 K E M F T V G C C V F T F L V G L L F V 512

1801 CCAGCGCTCCGAAACTACTTTGTACCATGTTTCGATGACTACTCAGCCACGCTGCCACT 1860  
 513 Q R S G N Y F V T M F D D Y S A T L P L 532

1861 CACTCTCATCGTCATCCTTGAGAACATCGCTGTGGCCTGGATTATGGACCCAAGAAGTT 1920  
 533 T L I V I L E N I A V A W I Y G P K K F 552

1921 CATGCAGGAGCTGACGGAGATGCTGGGCTTCCGCCCTACCGCTTCTATTCTACATGTG 1980  
 553 M Q E L T E M L G F R P Y R F Y F Y M W 572

1981 GAAGTTCGTGTCTCCACTATGCATGGCTGTGCTCACCACAGCCAGCATCATCCAGCTGGG 2040  
 573 K F V S P L C M A V L T T A S I I Q L G 592

FIG. 1C

2041 GGTACAGCCCCCGGCTACAGCGCCTGGATCAAGGAGGAGGCTGCCGAGCGCTACCTGTA 2100  
 593 V T P P A Y S A W I K E E A A E R Y L Y 612

2101 TTTCCCAACTGGCCCATGGCACTCCTGATCACCTCATCGTCGTGGCGACGCTGCCCAT 2160  
 613 F P N W P M A L L I T L I V V A T L P I 632

2161 CCCTGTGGTGTTCGTCTGCGGCACCTTCACCTGCTCTCTGATGGCTCCAACACCTCTC 2220  
 633 P V V F V L R H F H L L S D G S N T L S 652

2221 CGTGTCTTACAAGAAGGCCCGCATGATGAAGGACATCTCCAACCTGGAGGAGAACGATGA 2280  
 653 V S Y K K A R M M K D I S N L E E N D E 672

2281 GACCCGCTTCATCCTCAGCAAGGTGCCCAGTGAGGCACCTTCCCCCATGCCACTCACC 2340  
 673 T R F I L S K V P S E A P S P M P T H R 692

2341 TTCCTATCTGGGGCCCGGCAGCACATCACCCCTGGAGACCAGCTGGAACCCCAATGGACC 2400  
 693 S Y L G P G S T S P L E T S W N P N G P 712

2401 CTATGGGGCGGCTACCTGCTGGCCAGCACCCCTGAGTCTGAGCTGTGACCACTGCCCAA 2460  
 713 Y G R G Y L L A S T P E S E L \* 728

2461 GCCCATGCCGCTCTCCCCCACCG 2485

**FIG. 1D**

MATCH WITH FIG. 1D

# FIG. 1E

2290	2310	2330
AGACCCGCTTCATCTCAGCAAGGTGCCCCAGTGAGGCACCTTCCCCCATGCCCACTCACC		
T R F I L S K V P S E A P S P M P T H R		
2350	2370	2390
GTTCCTATCTGGGGCCCGCAGCACATCACCCCTGGAGACCAAGCTGGAACCCCAATGGAC		
S Y L G P G S T S P L E T S W N P N G P		
2410	2430	2450
CCTATGGCGCGGTACCTGCTGGCCACACACCCCTGAGTCTGAGCTGTGACCACTGCCCA		
Y G R G Y L L A S T P E S E L *		
2470		
AGCCCATGCCCGCTCTCCCCCCCACCG		